

4287-4011

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)					Form Approved OMB No. 0704-0188					
Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Please DO NOT RETURN your form to either of these address. Send completed form to the Government issuing Contracting Officer for the Contract/PR No. Listed in Block E.										
A. CONTRACT LINE ITEM NO. <i>0014AA</i>		B. EXHIBIT <i>AE</i>		C. CATEGORY TDF _____ TM _____ OTHER _____						
D. SYSTEM/ITEM			E. CONTRACT/PR NO.		F. CONTRACTOR					
1. DATA ITEM NO. <i>AE01</i>		2. TITLE OF DATA ITEM CERTIFICATION/DATA REPORT			3. SUBTITLE CHEMICAL AND MECHANICAL (PHYSICAL) PROPERTIES					
4. AUTHORITY (Data Acquisition Document No.) DI-MISC-80678			5. CONTRACT REFERENCE		6. REQUIRING OFFICE PSNS & IMF C/133.3					
7. DD 250 REQ SD	9. DIST STATEMENT REQUIRED D	10. FREQUENCY OTIME	12. DATE OF FIRST SUBMISSION A*	14. DISTRIBUTION						
8. APP CODE	11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION	A. ADDRESSEE		b. COPIES					
					Draft	Final Reg Repr				
16. REMARKS Block 9 – Distribution Statement D – Distribution authorized to DoD and DoD contractors only. Administration and operations only, effective 4/02/2012. Other U.S. requests shall be referred to COMNAVSEASYSKOM. A* Block 13: Material certification shall be forwarded with the hardware. Government to verify format, content, and media. Acceptance timeframe for Government to review, verify, and accept/reject the report shall be as specified in the contract. Acceptance shall be per the specification stated in the contract. B* Block 14: Material Certification RECEIVING OFFICER BLDG 514 ATTN CODE 133.3 PUGET SOUND NAVAL SHIPYARD & IMF 1400 FARRAGUT AVE. BREMERTON, WA 98314-5001					17. PRICE GROUP	18. ESTIMATED TOTAL PRICE				
					B*		1	0		
					15. TOTAL					
G. PREPARED BY <i>/s/ Ronnie Selby PSNS & IMF</i>		H. DATE <i>10/14/2014</i>		H. APPROVED BY <i>/s/ Carrie Delapp</i>		J. DATE <i>10/14/2014</i>				

For Document 4287-4011

Attachment 14

INSTRUCTIONS FOR COMPLETING DD FORM 1423

(See DoD 5010.12-M for detailed instructions.)

FOR GOVERNMENT PERSONNEL

- Item A. Self-explanatory.
- Item B. Self-explanatory.
- Item C. Mark (X) appropriate category: TDP - Technical Data Package; TM - Technical Manual; Other - other category of data, such as "provisioning," "Configuration Management", etc.
- Item D. Enter name of system/item being acquired that data will support.
- Item E. Self-explanatory (to be filled in after contract award).
- Item F. Self-explanatory (to be filled in after contract award).
- Item G. Signature of preparer of CDRL.
- Item H. Date CDRL was prepared.
- Item I. Signature of CDRL approval authority.
- Item J. Date CDRL was approved.
- Item 1. See DoD FAR Supplement Subpart 4.71 for proper numbering.
- Item 2. Enter title as it appears on data acquisition document cited in item 4.
- Item 3. Enter subtitle of data item for further definition of data item (optional entry).
- Item 4. Enter Data Item Description (DID) number, military specification number, or military standard number listed on DoD 5010.12-L (AMSDL), or one-time DID number, that defines data content and format requirements.
- Item 5. Enter reference to tasking in contract that generates requirement for the data item (e.g., Statement of Work paragraph number).
- Item 6. Enter technical-office responsible for ensuring adequacy of the data item.
- Item 7. Specify requirement for inspection/acceptance of the data item by the Government.
- Item 8. Specify requirement for approval of a draft before preparation of the final data item.
- Item 9. For technical data, specify requirement for contractor to mark the appropriate distribution statement on the data (ref., DoDD 5230.24).
- Item 10. Specify number of times data items are to be delivered.
- Item 11. Specify as-of date of data item, when applicable.
- Item 12. Specify when first submittal is required.
- Item 13. Specify when subsequent submittals are required, when applicable.
- Item 14. Enter addressees and number of draft/final copies to be delivered to each addressee. Explain reproducible copies in Item 16.
- Item 15. Enter total number of draft/final copies to be delivered.
- Item 16. Use for additional/clarifying information for items 1 through 15. Examples are: Tailoring of documents cited in Item 4; Clarification of submittal dates in Items 12 and 13; Explanation of reproducible copies in item 14; Desired medium for delivery of the data item.

FOR THE CONTRACTOR

- Item 17. Specify appropriate price group from one of the following groups of effort in developing estimated prices for each data item listed on the DD Form 1423.
 - a. Group I. Definition - Data which is not otherwise essential to the contractor's performance of the primary contracted effort (production, development, testing, and administration) but which is required by DD Form 1423.

Estimated Price - Costs to be included under Group I are those applicable to preparing and assembling the data item in conformance with Government requirements, and the administration and other expenses related to reproducing and delivering such data items to the Government.
 - b. Group II. Definition - Data which is essential to the performance of the primary contracted effort but the contractor is required to perform additional work to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, or quality of the data item.

Estimated Price - Costs to be included under Group II are those incurred over and above the cost of the essential data item without conforming to Government requirements, and the administrative and other expenses related to reproducing and delivering such data item to the Government.
 - c. Group III. Definition - Data which the contractor must develop for his internal use in performance of the primary contracted effort and does not require any substantial change to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, and quality of the data item.

Estimated Price - Costs to be included under Group III are the administrative and other expenses related to reproducing and delivering such data item to the Government.
 - d. Group IV. Definition - Data which is developed by the contractor as part of his normal operating procedures and his effort in supplying these data to the Government is minimal.

Estimated Price - Group IV items should normally be shown on the DD Form 1423 at no cost.
- Item 18. For each data item, enter an amount equal to that portion of the total price which is estimated to be attributable to the production or development for the Government of that item of data. These estimated data prices shall be developed only from those costs which will be incurred as a direct result of the requirement to supply the data, over and above those costs which would otherwise be incurred in performance of the contract if no data were required. The estimated data prices shall not include any amount for rights in data. The Government's right to use the data shall be governed by the pertinent provisions of the contract.

4287-4011

DATA ITEM DESCRIPTION

Title: CERTIFICATION/DATA REPORT

Number: DI-MISC-80678

Approval Date: 880912

AMSC Number: N4533

Limitation:

DTIC Applicable:

GIDEP Applicable:

Office Of Primary Responsibility (OPR): N/Sea 55z3

Applicable Forms:

Use/Relationship:

1. Certification data is required to verify that specific qualifications have been obtained, tests have been performed, parts/assemblies/equipment/systems have been installed, tested, inspected and are ready for operation; that personnel have specific qualifications to perform assignments/operations/inspections; or to certify identity, interchangeability, compatibility, reliability, or completeness of documentation being prepared or reviewed by a contractor. The technical effort involved will be the result of equipment/procurement specification requirement.
2. Certification may be required for a single event/operation, or may be required for a specified time period, or certification may be required on a continuing basis with periodic re-certification or updating of the original certification.
3. The technical content requirements for this item shall be specified in the contract. When this DID is applied to contracts acquiring items via a military specification prepared in accordance with MIL-STD-961, the necessary detailed technical requirements shall be prepared as an appendix to the military specification entitled "Certification Data/Report Technical Content Requirements." The appropriate paragraph in the Requirements section herein, i.e., 3.1 or 3.2 shall be specified on the DD Form 1423, Contract Data Requirements List (CDRL).

Requirements:

1. Format. The report shall be typewritten in narrative format on the contractor's form. The report shall cover the type of certification specified in Block 3, "Subtitle," of the CDRL, DD Form 1423.
2. Content. The report shall contain the contract number and data item sequence number, and shall contain a statement that specifically identifies the purpose and applicability of this certification.
 - 2.1 Certification of completion. Certification that tests have been performed, inspections made, parts/assemblies/equipment/systems have been installed, tested, inspected, and are ready for operation, or that specific qualifications have been obtained shall provide objective evidence in support of the certification. Objective evidence may include such items as spectrographs, radiographs, material sampling, analysis, inspection and testing reports, or any other necessary documentation.
 - 2.2 Certification of personnel. Certifications that personnel have specific qualifications shall be supported by licenses, permits, tests, statement of competency, or other documentation. The specific capabilities to perform an assignment, inspection, or other operations shall be stated in the certification.
 - 2.3 Certification of data reviews. Certifications that documentation/data has been reviewed shall contain a statement of the "depth" of the examination and the results thereof. If the documentation being reviewed cannot be certified, the report shall so state and shall list the reasons, i.e., deficiencies, conflicting data, etc.

(Continued on page 2)

For Document 4287-4011

2.4 Certification of compliance. Certification of compliance to specific specification requirements shall be a statement to the effect that the contractor has complied.

3. Technical content.

3.1 The technical content shall be in accordance with the appendix entitled "Certification Data Report Technical Content Requirements," contained in the applicable military specification as stated in the DD Form 1423, Contract Data Requirements List.

3.2 The technical content shall be as specified on the DD Form 1423, Contract Data Requirements List.

4. Supplemental information. Additional specific material, drawings, sketches, photographs, etc., in support of these certifications shall be as defined in the DD Form 1423.

5. Signature. The certification report shall be signed by the contractor's authorized representative responsible for insuring that the equipment being delivered/service being performed is in accordance with contract requirements.

6. End of DI-MISC-80678

Distribution Statement:

DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.

INSTRUCTIONS FOR COMPLETING DD FORM 1423
(See DoD 5010.12-M for detailed instructions.)

FOR GOVERNMENT PERSONNEL

- Item A. Self-explanatory.
- Item B. Self-explanatory.
- Item C. Mark (X) appropriate category: TDP - Technical Data Package; TM - Technical Manual; Other - other category of data, such as "provisioning," "Configuration Management", etc.
- Item D. Enter name of system/item being acquired that data will support.
- Item E. Self-explanatory (to be filled in after contract award).
- Item F. Self-explanatory (to be filled in after contract award).
- Item G. Signature of preparer of CDRL.
- Item H. Date CDRL was prepared.
- Item I. Signature of CDRL approval authority.
- Item J. Date CDRL was approved.
- Item 1. See DoD FAR Supplement Subpart 4.71 for proper numbering.
- Item 2. Enter title as it appears on data acquisition document cited in item 4.
- Item 3. Enter subtitle of data item for further definition of data item (optional entry).
- Item 4. Enter Data Item Description (DID) number, military specification number, or military standard number listed on DoD 5010.12-L (AMSDL), or one-time DID number, that defines data content and format requirements.
- Item 5. Enter reference to tasking in contract that generates requirement for the data item (e.g., Statement of Work paragraph number).
- Item 6. Enter technical-office responsible for ensuring adequacy of the data item.
- Item 7. Specify requirement for inspection/acceptance of the data item by the Government.
- Item 8. Specify requirement for approval of a draft before preparation of the final data item.
- Item 9. For technical data, specify requirement for contractor to mark the appropriate distribution statement on the data (ref., DoDD 5230.24).
- Item 10. Specify number of times data items are to be delivered.
- Item 11. Specify as-of date of data item, when applicable.
- Item 12. Specify when first submittal is required.
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- Item 14. Enter addressees and number of draft/final copies to be delivered to each addressee. Explain reproducible copies in Item 16.
- Item 15. Enter total number of draft/final copies to be delivered.
- Item 16. Use for additional/clarifying information for items 1 through 15. Examples are: Tailoring of documents cited in Item 4; Clarification of submittal dates in Items 12 and 13; Explanation of reproducible copies in item 14; Desired medium for delivery of the data item.

FOR THE CONTRACTOR

- Item 17. Specify appropriate price group from one of the following groups of effort in developing estimated prices for each data item listed on the DD Form 1423.
 - a. Group I. Definition - Data which is not otherwise essential to the contractor's performance of the primary contracted effort (production, development, testing, and administration) but which is required by DD Form 1423.

Estimated Price - Costs to be included under Group I are those applicable to preparing and assembling the data item in conformance with Government requirements, and the administration and other expenses related to reproducing and delivering such data items to the Government.
 - b. Group II. Definition - Data which is essential to the performance of the primary contracted effort but the contractor is required to perform additional work to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, or quality of the data item.

Estimated Price - Costs to be included under Group II are those incurred over and above the cost of the essential data item without conforming to Government requirements, and the administrative and other expenses related to reproducing and delivering such data item to the Government.
 - c. Group III. Definition - Data which the contractor must develop for his internal use in performance of the primary contracted effort and does not require any substantial change to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, and quality of the data item.

Estimated Price - Costs to be included under Group III are the administrative and other expenses related to reproducing and delivering such data item to the Government.
 - d. Group IV. Definition - Data which is developed by the contractor as part of his normal operating procedures and his effort in supplying these data to the Government is minimal.

Estimated Price - Group IV items should normally be shown on the DD Form 1423 at no cost.
- Item 18. For each data item, enter an amount equal to that portion of the total price which is estimated to be attributable to the production or development for the Government of that item of data. These estimated data prices shall be developed only from those costs which will be incurred as a direct result of the requirement to supply the data, over and above those costs which would otherwise be incurred in performance of the contract if no data were required. The estimated data prices shall not include any amount for rights in data. The Government's right to use the data shall be governed by the pertinent provisions of the contract.

DATA ITEM DESCRIPTION

Title: CERTIFICATION/DATA REPORT

Number: DI-MISC-80678

AMSC Number: N4533

DTIC Applicable:

Office Of Primary Responsibility (OPR): N/Sea 55z3

Applicable Forms:

Use/Relationship:

Approval Date: 880912

Limitation:

GIDEP Applicable:

1. Certification data is required to verify that specific qualifications have been obtained, tests have been performed, parts/assemblies/equipment/systems have been installed, tested, inspected and are ready for operation; that personnel have specific qualifications to perform assignments/operations/inspections; or to certify identity, interchangeability, compatibility, reliability, or completeness of documentation being prepared or reviewed by a contractor. The technical effort involved will be the result of equipment/procurement specification requirement.
2. Certification may be required for a single event/operation, or may be required for a specified time period, or certification may be required on a continuing basis with periodic re-certification or updating of the original certification.
3. The technical content requirements for this item shall be specified in the contract. When this DID is applied to contracts acquiring items via a military specification prepared in accordance with MIL-STD-961, the necessary detailed technical requirements shall be prepared as an appendix to the military specification entitled "Certification Data/Report Technical Content Requirements." The appropriate paragraph in the Requirements section herein, i.e., 3.1 or 3.2 shall be specified on the DD Form 1423, Contract Data Requirements List (CDRL).

Requirements:

1. **Format.** The report shall be typewritten in narrative format on the contractor's form. The report shall cover the type of certification specified in Block 3, "Subtitle," of the CDRL, DD Form 1423.
2. **Content.** The report shall contain the contract number and data item sequence number, and shall contain a statement that specifically identifies the purpose and applicability of this certification.
 - 2.1 **Certification of completion.** Certification that tests have been performed, inspections made, parts/assemblies/equipment/systems have been installed, tested, inspected, and are ready for operation, or that specific qualifications have been obtained shall provide objective evidence in support of the certification. Objective evidence may include such items as spectrographs, radiographs, material sampling, analysis, inspection and testing reports, or any other necessary documentation.
 - 2.2 **Certification of personnel.** Certifications that personnel have specific qualifications shall be supported by licenses, permits, tests, statement of competency, or other documentation. The specific capabilities to perform an assignment, inspection, or other operations shall be stated in the certification.
 - 2.3 **Certification of data reviews.** Certifications that documentation/data has been reviewed shall contain a statement of the "depth" of the examination and the results thereof. If the documentation being reviewed cannot be certified, the report shall so state and shall list the reasons, i.e., deficiencies, conflicting data, etc.

(Continued on page 2)

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DI-MISC-80678

2.4 Certification of compliance. Certification of compliance to specific specification requirements shall be a statement to the effect that the contractor has complied.

3. Technical content.

3.1 The technical content shall be in accordance with the appendix entitled "Certification Data Report Technical Content Requirements," contained in the applicable military specification as stated in the DD Form 1423, Contract Data Requirements List.

3.2 The technical content shall be as specified on the DD Form 1423, Contract Data Requirements List.

4. Supplemental information. Additional specific material, drawings, sketches, photographs, etc., in support of these certifications shall be as defined in the DD Form 1423.

5. Signature. The certification report shall be signed by the contractor's authorized representative responsible for insuring that the equipment being delivered/service being performed is in accordance with contract requirements.

6. End of DI-MISC-80678

Distribution Statement:

DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.

For Document Number 4287-4012

4287-4013

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)					Approved OMB No. 0704-0188		
Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government issuing Contracting Officer for the Contract/PR No. Listed in Block E.							
A. CONTRACT LINE ITEM NO. <i>DD/MAC</i>		B. EXHIBIT <i>AG</i>		C. CATEGORY TDF _____ TM _____ OTHER _____			
D. SYSTEM/ITEM			E. CONTRACT/PR NO.		F. CONTRACTOR		
1. DATA ITEM NO. <i>AG01</i>		2. TITLE OF DATA ITEM TEST/INSPECTION REPORT			3. SUBTITLE SAFETY/MATERIAL CERTIFICATION LIQUID PENETRANT INSPECTION		
4. AUTHORITY (Data Acquisition Document No.) DI-NDTI-80809B			5. CONTRACT REFERENCE		6. REQUIRING OFFICE PSNS & IMF C/133.3		
7. DD 250 REQ SD A*	9. DIST STATEMENT REQUIRED D	10. FREQUENCY O TIME	12. DATE OF FIRST SUBMISSION B*	14. DISTRIBUTION			
8. APP CODE		11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION C*	A. ADDRESSEE		b. COPIES	
						Final	
						Draft Reg Repr	
16. REMARKS A* Blocks 7 and 14 – Material Certification: RECEIVING OFFICER BLDG 514 ATTN CODE 133.3 PUGET SOUND NAVAL SHIPYARD & INTERMEDIATE MAINTENANCE FACILITY 1400 FARRAGUT AVE. BREMERSTON, WA 98314-5001 Block 9 – Distribution Statement D – Distribution authorized to DoD and DoD contractors only. Administration and operations only, effective 04/02/12. Other U.S. requests shall be referred to COMNAVSEASYS.COM. B* Block 12 – Personnel Qualifications and Procedures, ordered on separate contract line item, to be submitted and approved before testing unless otherwise specified in contract. C* Block 13: Material certification shall be forwarded with the hardware. Government to verify format, content, and media. Acceptance timeframe for Government review, verify, and acceptance/reject the report shall be as specified in the contract. Acceptance shall be per the specification stated in the contract. Inspection shall be in accordance with T9074-AS-GIB-010/271 (with ACN-1). Procedures and personnel qualifications shall be submitted for approval in accordance with the contract and T9074-AS-GIB-010/271 (with ACN-1). Acceptance criteria shall be per MIL-STD-2035A Class 1. All sleeve surfaces (ID, OD and end faces) shall be inspected. Procedure approval may be waived if procedure has been previously reviewed, accepted and no changes have been made since last approval.				A*		1	0
G. PREPARED BY <i>/s/ Ronnie Selby PSNS & IMF</i>		H. DATE 10/14/2014		I. APPROVED BY <i>/s/ Carrie Delapp</i>		J. DATE 10/14/2014	

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

For Document 4287-4013

Attachment 14

INSTRUCTIONS FOR COMPLETING DD FORM 1423

(See DoD 5010.12-M for detailed instructions.)

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DATA ITEM DESCRIPTION**Title:** TEST/INSPECTION REPORT**Number:** DI-NDTI-80809B**Approval Date:** 970124**AMSC Number:** F72331**Limitation:****DTIC Applicable:****GIDEP Applicable:****Office Of Primary Responsibility (OPR):** F/AFMC-DOP**Applicable Forms:****Use/Relationship:**

1. The test/inspection report is used to document test/inspection results, findings, and analyses that will enable the government or contracting agency to evaluate compliance with system requirements, performance objectives, specifications, and test/inspection plans.
2. This data item description (DID) contains the format and content preparation instructions for the data product generated by the specific and discrete task requirements as delineated in the contract.
3. This DID is applicable to engineering (developmental), preliminary qualification, qualification, and acceptable testing.
4. This DID supersedes DI-NDTI-80809A and DI-MISC-806

Requirements:

1. Format. Contractor format is acceptable. Organize the information required by paragraph 2 and its subparagraphs in a manner that facilitates presentation and understanding.
2. Content. The test/inspection report shall contain the following information, as applicable.
 - 2.1. Cover and Title Page. The following information shall appear on the outside front cover and title page:
 - a) Report date.
 - b) Report number (contractor or government)
 - c) Contractor's name, address, and commercial and government entity code.
 - d) Contract number and contract line item number or sequence number (is applicable).
 - e) Test/inspection (for example, first article acceptance test, quality conformance inspection, developmental test, qualification test, environmental test).
 - f) Identification of item tested/inspected.
 - g) Date or period of test/inspection.
 - h) Name and address of requiring government activity.
 - i) Security classification, downgrading and declassification information, if applicable.
 - 2.2. Table of Contents. The table of contents shall identify the following:
 - a) The title and starting page of each major section, paragraph, and appendix of the report.
 - b) The page, identifying number, and title of each illustration (for example; figure, table, photograph, chart, and drawing).
 - 2.3. Introduction. The introduction shall include the following information:

(Continued on page 2)

a) Test/inspection objective(s). The specific test/inspection objective(s) as specified herein.
b) Item(s) tested/inspected. Complete identification of the item(s) tested/inspected including the following:

- 1) Nomenclature
- 2) National stock number
- 3) Model number, part number, and serial number
- 3) Type of item (for example, prototype, production item, laboratory model)
- 5) Serial or lot number
- 6) Applicable engineering changes
- 7) Production item specification, if applicable
- 8) Date of manufacture

c) Test/inspection requirements. Complete identification of the test/inspection requirements correlated to contractual requirements including the following:

- 1) Required test/inspection parameters.
- 2) Performance requirements, acceptance or compliance limits, and environmental criteria.

2.4 Summary. Complete test/inspection report summary including the following:

- a. A brief discussion of the significant test/inspection results, observations conclusions, and recommendations covered in greater detail elsewhere in the report.
- b. Proposed corrective actions and schedules for failures or problems encountered.
- c. Identification of deviations, departures, or limitations encountered, referenced to the contract requirements.
- d. Tables, graphs, illustrations, or charts as appropriate to simplify the summary data.

2.5 Reference documents. Complete identification of all documents referenced in the test/inspection report including the following, as applicable:

- a. Prior test/inspection reports on the same item.
- b. Test/inspection plans and procedure documents.
- c. Prior certifications of compliance.
- d. Contractor's file designation where test/inspection records are maintained.
- e. Input parameters used.

The applicable issue of the documents cited therein, including their approval dates and dates of any applicable amendments, notices, and revisions, shall be as specified in the contract.

2.6. Body of Report. The body of the test/inspection report shall be as follows:

2.6.1 Test equipment identification. Complete identification of each item of test equipment used in the test/inspection including the following:

- a) Nomenclature
- b) Model number
- c) Serial number
- d) Manufacturer

(Continued on page 3)

- e) Calibration status
- f) Accuracy data
- g) Comments, if applicable

2.6.2 Test/inspection facility installation and set-up. Complete description of the physical set-up used in conducting the test/inspection to include the following:

- a) Location or orientation of the item
- b) Location, orientation, or settings of test equipment and instrumentation
- c) Location, orientation, or settings of sensors and probes
- d) Location or orientation of interconnections, cables, and hoop-ups
- e) Electrical power, pneumatic, fluidic, and hydraulic requirements

Drawings, illustrations, and photographs may be used for clarification.

2.6.3 Test/inspection procedures. Complete description of the procedures used in conducting the test/inspection to include the following:

- a) Item selection and inspection that verified suitability for test/inspection.
- b) Summarized sequence of testing/inspection steps, including a description of how the item was operated during the test/inspection, and any control conditions imposed.

2.6.4 Test/inspection - results and analysis. A copy of all test/inspection results and analysis to include the following:

- a) Recorded data. The actual recorded data (e.g., log book entries, oscillographs, instrument readings, plotter graphs). If the recorded data is extensive, provide it in an appendix.
- b) Test/inspection results. Identification of all test/inspection results to include the following:
 - (1) Matrices comparing results achieved against test/inspection objectives or requirements
 - (2) A discussion of these matrices as to their significance, and how they compare to any prior test/inspections
 - (3) Calculation examples
 - (4) Discussion of anomalies, deviations, discrepancies, or failures including their impact, causes, and proposed corrective actions. The discussion shall address discrepancies between design requirements and the tested/inspected configuration.

2.6.5 Conclusions. Test/inspection conclusions distinguished between objective and subjective to include the following:

- a) The effectiveness of the test/inspection procedures in measuring item performance.
- b) The success or failure of the item to meet required test/inspection objectives.
- c) The need for repeat, additional, or alternative tests/inspections.
- d) The need for item redesign or further development.
- e) The need for improved test/inspection procedures, techniques, or facilities.
- f) The adequacy and completeness of the test/inspection requirements.

2.6.6 Recommendations. Recommendations appropriate to the test/inspection results and conclusions including the following:

(Continued on page 4)

- a) Acceptability of the item tested/inspected (pass or fail).
- b) Additional testing/inspection required.
- c) Redesign required.
- d) Problem resolution.
- e) Test/inspection procedure or facility improvements.
- f) Disposition of items tested/inspected.
- g) Documentation changes required.
- h) Testing/inspection improvements.

2.7. Authentication. The following certifications shall be included, as applicable:

2.7.1 Authentication of test/inspection results. A statement that the test/inspection was performed in accordance with applicable test/inspection plans and procedures, and that the results are true and accurate. The authentication shall include the signature of the contractor personnel that performed the test(s)/inspection(s), a contractor representative authorized to make such certification, and any government witnesses.

2.7.2 Authentication of prior validation. A statement identifying those requirements not tested/inspected or measured that were previously validated. Include identification of the data and method employed for such validation (for example, prior test/inspection, analytical verification, equivalent item, and so on). The authentication shall include the signature of a contractor representative authorized to make such authentication and any government witness.

2.7.3 Authentication of acceptability. A statement that the item tested/ inspected either passed or failed item acceptability requirements. This authentication shall include the signature of a contractor representative authorized to make such authentication and any government witness.

2.8. Appendices. Appendices shall be used to append detailed test/inspection data, drawings, photographs, or other documentation too voluminous to include in the main body of the report. This includes referenced documentation not previously provided by the government, and test/ inspection reports from any associated test/inspection activity that may have performed some of the testing/inspecting requirements.

End of DI-NDTIMISC-80809B

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